PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER	FOR FURTHER ACTION See Form PCT/IPEA/416		
		International filing da	to (day/month/year)	Priority date (day/month/year)	
• •		23.11.2004	tte (day/montraycar)	23.12.2003	
	_	 n (IPC) or national classification an	d IPC		
	3L3/00, A23B7/00, A23E				
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	licant ILEVER N.V. et al.				
	ILLVLI (N.V. Ct al.				
1.	This report is the intern Authority under Article (ational preliminary examinatior 35 and transmitted to the applic	n report, established by cant according to Article	this International Preliminary Examining e 36.	
2.	This REPORT consists	of a total of 4 sheets, includin	g this cover sheet.		
3.		mpanied by ANNEXES, compr			
		cant and to the International Bo			
	and/or shee	e description, claims and/or dra ts containing rectifications auth ive Instructions).	awings which have bee norized by this Authority	n amended and are the basis of this report (see Rule 70.16 and Section 607 of the	
i.	☐ sheets which	h supersede earlier sheets, bu	t which this Authority co	onsiders contain an amendment that goes	
	beyond the Supplemen		application as filed, as i	ndicated in item 4 of Box No. I and the	
	h ☐ (sent to the Inte	rnational Bureau only) a total o	f (indicate type and nur	mber of electronic carrier(s)) , containing a	
	sequence listing Box Relating to	g and/or tables related thereto, i Sequence Listing (see Section	in computer readable to 802 of the Administrati	orm only, as indicated in the Supplemental ive Instructions).	
	2011.10101111.19 10				
4.	This report contains inc	dications relating to the followin	ıg items:		
	☐ Box No. I Basis	s of the opinion			
	☐ Box No. II Prior				
	☐ Box No. III Non-	establishment of opinion with r	ard to novelty, inventive step and industrial applicability		
		of unity of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
☐ Box No. VI Certain documents cited					
☐ Box No. VII Certain defects in the international application		application			
-	☐ Box No. VIII Certa	ain observations on the interna	tional application		
			Data of completion	of this report	
Dat	te of submission of the dema	nd	Date of completion	of this report	
25.04.2005		14.11.2005			
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	me and mailing address of the Iliminary examining authority		Authorized Onicel	Judiches Patoniom, C.	
European Patent Office D-80298 Munich		Vernier, F	3. ibou		
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	Fax: +49 89 2399	J - 4465	Telephone No. +49	QA <23A3-	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/013654

	Box	k No. I	Basis of the repor	t				
 With regard to the language, this filed, unless otherwise indicated 			d to the language , th s otherwise indicated	is report is based or under this item.	n the internatio	onal application in the	e language in which it	was
 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 						anguage ,		
2. With regard to the elements* of the international application, this report is based on (replacement sheets where the have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in the report as "originally filed" and are not annexed to this report):							eplacement sheets wh 4 are referred to in this	nich s
	Des	cription	, Pages					
	1-10			as originally filed				
	Clai	ms, Nur	mbers					
	1-8			as originally filed				
		a sequ	ence listing and/or ar	ny related table(s) -	see Suppleme	ental Box Relating to	Sequence Listing	
3.		☐ the ☐ the ☐ the ☐ the	nendments have rest description, pages claims, Nos. drawings, sheets/figs sequence listing (spe table(s) related to se	s ecify):			•	
4.	Sup	not been plement the the the the the the the the the	port has been establen made, since they had tal Box (Rule 70.2(c) description, pages claims, Nos. drawings, sheets/figs sequence listing (spetable(s) related to se	nave been consider). : ecify):	ed to go beyor	ents annexed to this and the disclosure as t	report and listed below filed, as indicated in the	v e
	*	If ite	em 4 applies, so	ome or all of t	hese sheet	s may be marked	"superceded "	

INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/EP2004/013654

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

1-8

Inventive step (IS)

Yes: Claims

Claims

Claims No:

1-8

Industrial applicability (IA)

Yes: Claims

1-8

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/EP2004/013654

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: OU SHIYI ET AL: "Ferulic acid: pharmaceutical functions, preparation and applications in foods" JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol. 84, no. 11, 30 August 2004 (2004-08-30), pages 1261-1269, XP001205991 ISSN: 0022-5142
- D2: THAKUR B R ET AL: "CHEMISTRY AND USES OF PECTIN A REVIEW" CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, BOCA RATON, FL, US, vol. 37, 1997, pages 47-73, XP009024042 ISSN: 1040-8398
- D3: WO 96/03546 A (NOVO NORDISK A/S; PEDERSEN, LARS, SAABY; FELBY, CLAUS) 8 February 1996 (1996-02-08)
- D4: US-A-4 672 034 (ROMBOUTS ET AL) 9 June 1987 (1987-06-09)
- 1. Document D1 (P-doc) may become relevant in the regional phase when dealing with the question of novelty of the present subject-matter.
- 2. None of D2-D4 discloses the process for preparing an edible barrier applied to a food product, said barrier being obtained by partial oxidation of a ferulyolated compound. Thus, present independent claims meet the novelty requirements (Article 33(2) PCT).
- 3. However, the solution to the problem of food preservation offered by present claims does not involve an inventive step (Article 33(3) PCT) in the light of the combinations of D2 (edible films of pectin) with D3 or D4 (oxidation process).
- 4. The subject-matter of present claims meets the requirements of Article 33(4) PCT.